

## **APPENDIX F**

### **GROUNDWATER MONITORING REPORT**

**Groundwater Monitoring Report  
July 2002  
PlumpJack Squaw Valley Inn  
and  
Ski Corporation Parking Lot**

On Behalf of

CNCML Partners  
PlumpJack Squaw Valley Inn  
Olympic Valley, California

Prepared for:

PlumpJack Management Group  
3201 Fillmore Street  
San Francisco, CA 94123

For Submittal to:

California Regional Water Quality Control Board Lahontan Region  
2501 Lake Tahoe Boulevard  
South Lake Tahoe, CA 96150

Prepared By:

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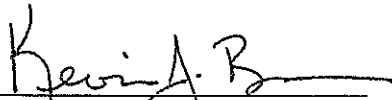
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July 2002  
Lahontan Regional Water Quality Control Board

Groundwater Monitoring Report  
Submitted on behalf of CNCML Partners  
PlumpJack Squaw Valley Inn  
Olympic Valley, California

Prepared for PlumpJack Management Group  
San Francisco, California

Prepared by Geocon Consultants, Inc.  
Sausalito Financial Group, Inc.  
and ZymaX Forensics Corporation

  
Kevin Brown, RG  
Geocon Consultants, Inc.



## **1.0 INTRODUCTION**

The Report submitted on October 8, 1999 based on Third Quarter-1999 sampling and testing of soil and groundwater around the PlumpJack Inn and from five wells beneath the Ski Corporation parking lot, resulted in the following conclusions.

- (i) The concentration of diesel in the water samples had decreased from the sampling and testing performed in September 1998.
- (ii) Soil samples and groundwater samples from the same wells contained severely degraded hydrocarbon fuels which were chemically distinct from the diesel in monitoring wells beneath the Ski Corporation parking lot.
- (iii) A new well developed east of those developed in 1998 (MW99-03) contained no detectable diesel.
- (iv) Based on these data, PlumpJack's consultants concluded that no migration had or was occurring from hydrocarbons on the PlumpJack property to the Ski Corporation property.

In July 2002, groundwater was sampled from five wells beneath the Ski Corporation parking lot (MW98-01, MW98-02, MW98-04, MW98-05, and MW99-03) and two wells on the PlumpJack Inn Property (MW99-01 and MW99-02). Wells MW98-03 and MW98-06 were abandoned and destroyed by the Intrawest Construction activity.

This report presents the findings of the July 2002 groundwater sampling and is the work product of three companies, Geocon Consultants, Inc. ("Geocon"), ZymaX Forensics Corporation ("ZymaX") (formerly Global Geochemistry Corporation) and Sausalito Financial Group, Inc.

Sausalito Financial Group, Inc. is the lead consultant who coordinated the subcontractors in preparation of drilling, testing and this report.

Geocon collected the groundwater samples for analysis. Sections 5.0, 6.0 and 8.0 of this report were prepared by Geocon, along with, the referenced figures and tables for these sections. ZymaX tested and analyzed the soil and groundwater samples collected from the monitoring wells. Dr. Isaac Kaplan, of ZymaX, provided detailed interpretations of the analytical results for groundwater. The data analysis performed by Dr. Kaplan is the basis for the discussions presented in sections 3.0, 4.0 and 7.0 of this report along with the appropriate figures and tables.

Sausalito Financial Group, Inc. prepared the introduction and background sections 1.0 and 2.0 of this report and provided oversight of the report submittal. Sausalito Financial Group, Inc. and PlumpJack Management Group will conduct all necessary follow-up with the Lahontan Regional Water Quality Control Board ("LRWQCB") with the participation of Geocon and ZymaX as needed.

## **2.0 EXECUTIVE SUMMARY**

- (i) For the July 2002 groundwater sampling, hydrocarbons were detected in the groundwater samples collected from wells MW98-01, MW98-02 and MW98-05.

- (ii) For the July 2002 groundwater sampling, no benzene, toluene, ethylbenzene xylenes (BTEX) or methyl tert-butyl ether (MTBE) were detected in any of the samples.
- (iii) The concentration of total petroleum hydrocarbons as diesel (TPHd) in the collected groundwater samples have shown a decrease from September 1998 sampling to March 2002. MW98-01 has decreased from 5350  $\mu\text{g/L}$  in 1998 to 200  $\mu\text{g/L}$  in March 2002; MW98-02 has decreased from 90,600  $\mu\text{g/L}$  to 190  $\mu\text{g/L}$ , and MW-98-05 has decreased from 82,300  $\mu\text{g/L}$  to 1,600  $\mu\text{g/L}$  for the same interval of time.
- (iv) The results of July 2002 sampling and testing continue to suggest that the hydrocarbons in the groundwater are not migrating and no hazardous chemical above the Maximum Containment Levels (MCL) stipulated by either the CRWQCB or by EPA have been detected in the groundwater samples.

### **3.0 RESULTS**

Samples of groundwater were collected from seven wells (MW98-01, MW98-02, MW98-04, MW98-05, MW99-01, MW99-02 and MW99-03). The analytical data in the form of laboratory data sheets, together with quality control information, chains of custody and field data are presented in the appendix. For the July 2002 sampling, TPHd was reported for samples MW98-01, MW98-02 and MW98-05 at 120  $\mu\text{g/L}$ , 200  $\mu\text{g/L}$  and 2,500  $\mu\text{g/L}$ , respectively. Total petroleum hydrocarbons as motor oil (TPHmo) and gasoline (TPHg) were not reported for any of the samples analyzed.

A summary is shown in Table 1, which compares the results from the previous samplings. The data generally show a decrease in the concentration of TPHd from 1998 to 2002. This decrease probably indicates stabilization of the hydrocarbons in the soil column and diminished transfer of hydrocarbons from soil to groundwater. Additionally, natural attenuation is likely occurring and lowering the TPH concentrations dissolved in groundwater.

### **4.0 DISCUSSION**

It is apparent from the results that dissolved TPHd has decreased in concentration from the initial development and analysis of the wells. This relationship supports the conclusions that with time, there is less tendency to transfer hydrocarbons from the soil profile to the water. The general absence of TPH in the wells on the PlumpJack property argues against a transport of diesel from that property to the Ski Corporation parking lot. The lack of mobility of the diesel is further supported by the continued absence of detectable TPHd in well MW99-03.

An interpretation of the analysis conducted in 1999 and January 2000, is that a source for diesel had existed at the western edge of the Ski Corporation parking lot east of Squaw Valley Road. This source could have been a storage tank or parking space for diesel burning motor vehicles, such as tour buses at that location.

### **5.0 GROUNDWATER MONITORING METHODS**

#### **5.1 GROUNDWATER LEVEL MEASUREMENTS**

On July 30, 2002, a representative of Geocon measured the groundwater levels in each of the accessible site monitoring wells. These wells included MW98-01, MW98-02, MW98-04, MW98-05, MW-99-01, MW99-02 and MW99-03. MW98-03 and MW98-06 were

destroyed during construction activities associated with the expansion of the Squaw Valley Ski Resort.

Groundwater was encountered at depths ranging from 12.68 (MW99-03) to 18.91 (MW99-02) feet below the top of each well casing. Compared to levels measured in the wells available in March 2002, the groundwater elevations measured beneath the Site decreased an average of 0.32 foot from March 2002 to July 2002. A summary of the top of well casing elevations, groundwater level measurements and groundwater elevations is presented on Table 1.

Based on the July 2002 groundwater elevation data, the groundwater flow beneath the Site is directed generally to the northeast at an approximate gradient of 0.003. Groundwater elevation contours and gradient for the July 2002 groundwater monitoring are shown on the Groundwater Elevation Map – July 2002, Figure 1-3.

## **5.2 WELL PURGING AND GROUNDWATER SAMPLING**

On July 30, 2002, approximately three well volumes of groundwater were extracted from monitoring wells MW98-01, MW98-02, MW98-04, MW98-05, MW99-01, MW99-02 and MW99-03 utilizing a pre-cleaned disposable bailer. During the well purging activities, the groundwater was monitored for pH, electrical conductivity and temperature. Monitoring well sampling data sheets for the July 2002 groundwater sampling are presented in the Appendix. The extracted groundwater was transferred into one labeled Department of Transportation-approved, 17-H, 55-gallon drum and temporarily stored at Geocon pending receipt of analytical results and appropriate disposal following regulatory protocol. On August 23, 2002, ABCO Environmental Services transported the drum to the Instrat Inc. Facility in Rio Vista, California for recycling.

Following well purging, groundwater samples were collected from each well and decanted into four 40-milliliter volatile organic analysis vials and two one-liter amber bottles. Each sample container was sealed, labeled, placed in an ice chest containing ice and subsequently transported to the laboratory using standard chain-of-custody protocol.

## **5.5 LABORATORY ANALYSES**

The laboratory analyses for the groundwater samples were assigned in accordance with the approved workplans for this project. ZymaX Envirotechnology, Inc analyzed the groundwater samples collected. The analytical results are discussed in sections 3.0 and 4.0 of this report. The distribution of TPHd in groundwater is depicted in Figure 1-2.

## **6.0 SITE GROUNDWATER CONDITIONS**

In March and July 2002, groundwater depth measurements have returned to levels more consistent with historical depths. In July 2002, groundwater was encountered at depths ranging from 12.68 to 18.91 feet below the top of each well casing. At this time, the general direction of groundwater flow was towards the northeast with an approximate gradient of 0.003.

Groundwater depth and flow direction beneath the Site has remained generally consistent throughout the groundwater monitoring periods, although gradients have varied between 0.001 and 0.009.

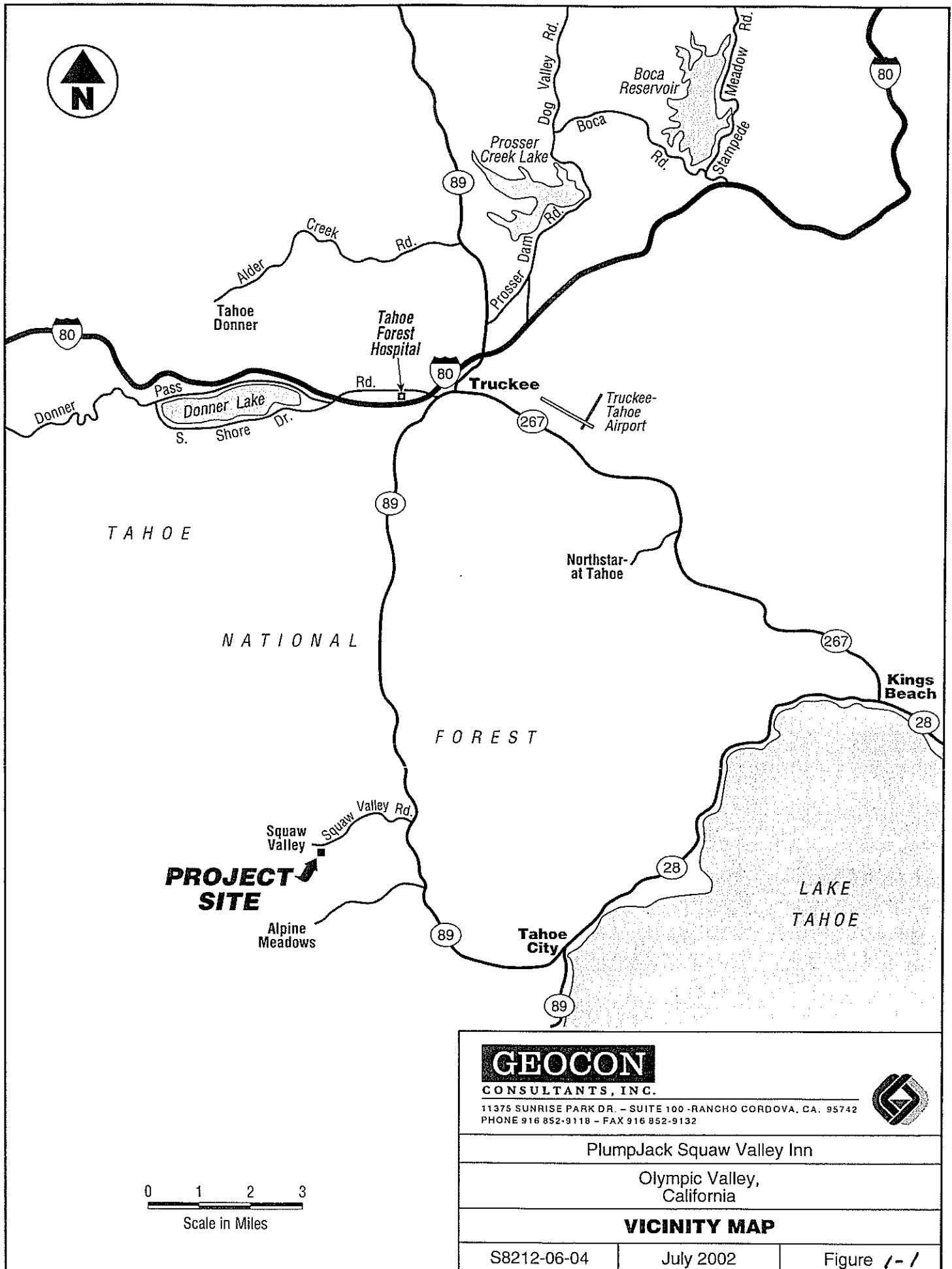
## **7.0 CONCLUSION**

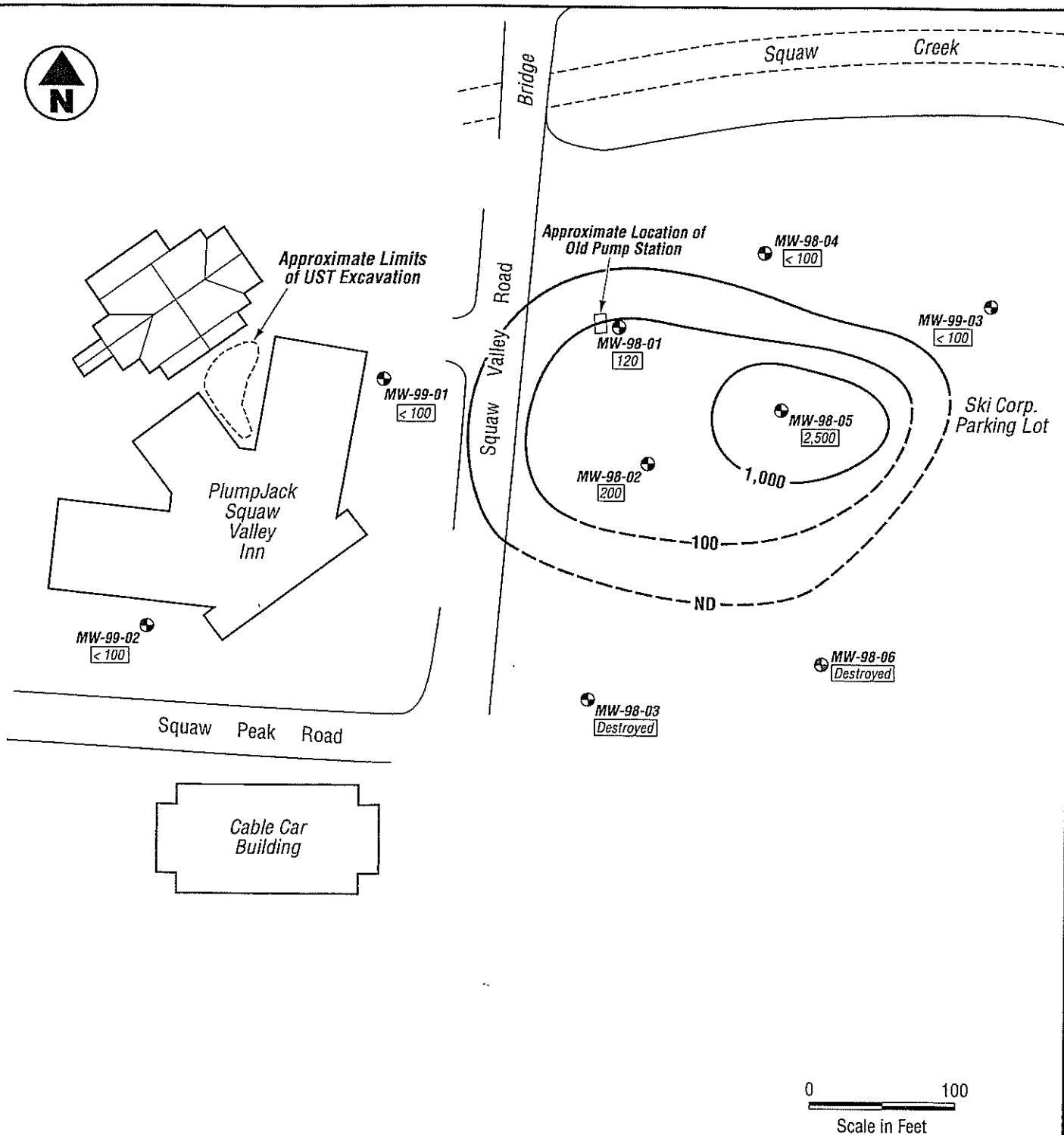
The cumulative data collected at the Site to date shows that the concentration of dissolved hydrocarbons in groundwater have been generally decreasing from the September 1998 sampling to July 2002. The results of the sampling and testing performed at the Site suggest that natural attenuation may be responsible for degrading the hydrocarbons in the water. Based on this data, neither benzene nor MTBE have ever been detected, and currently no hazardous chemical above the MCL stipulated by the CRWQCB or by the EPA exists. Further, the general absence of TPHd in the wells on the PlumpJack property continue to support the conclusion stated in previous reports that no migration had or was occurring from hydrocarbons on the PlumpJack property to the Ski Corporation property. It is likely that a source for diesel had existed at the western edge of the Ski Corporation parking lot, east of Squaw Valley Road, at sometime in the past. That unidentified source is the probable cause of the contamination of the soil and groundwater previously found in the vicinity of well MW98-05.

## **8.0 REPORT LIMITATIONS**


This report has been prepared exclusively for CNCML Partners, PJSVI and the PlumpJack Management Group. The information contained herein is only valid as of the date of the report. This report is a site characterization only of the specific areas tested. The findings as presented in this report are predicated on the results of the sampling and laboratory testing performed in accordance with the Workplan, Revised Workplan and Workplan Addendum as approved by LRWQCB. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified above.


Therefore, the report should only be deemed conclusive with respect to the information contained herein. No guarantee or warranty of the result of the report is implied within the intent of this report or any subsequent reports, correspondence or consultation either expressed or implied. Each involved party strived to perform the services summarized herein in accordance with local standard of care in the geographic region at the time services were rendered and in accordance with the Workplan, Revised Workplan and Workplan Addendum submitted to the LRWQCB on behalf of CNCML Partners and PJSVI.






LEGEND:

MW-98-01  Approximate Monitoring Well Location  
(Geocon, 1998, 1999)

 TPHd Concentration (ug/l)

100  TPHd Isoconcentration Contour (ug/l)

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PlumpJack Squaw Valley Inn

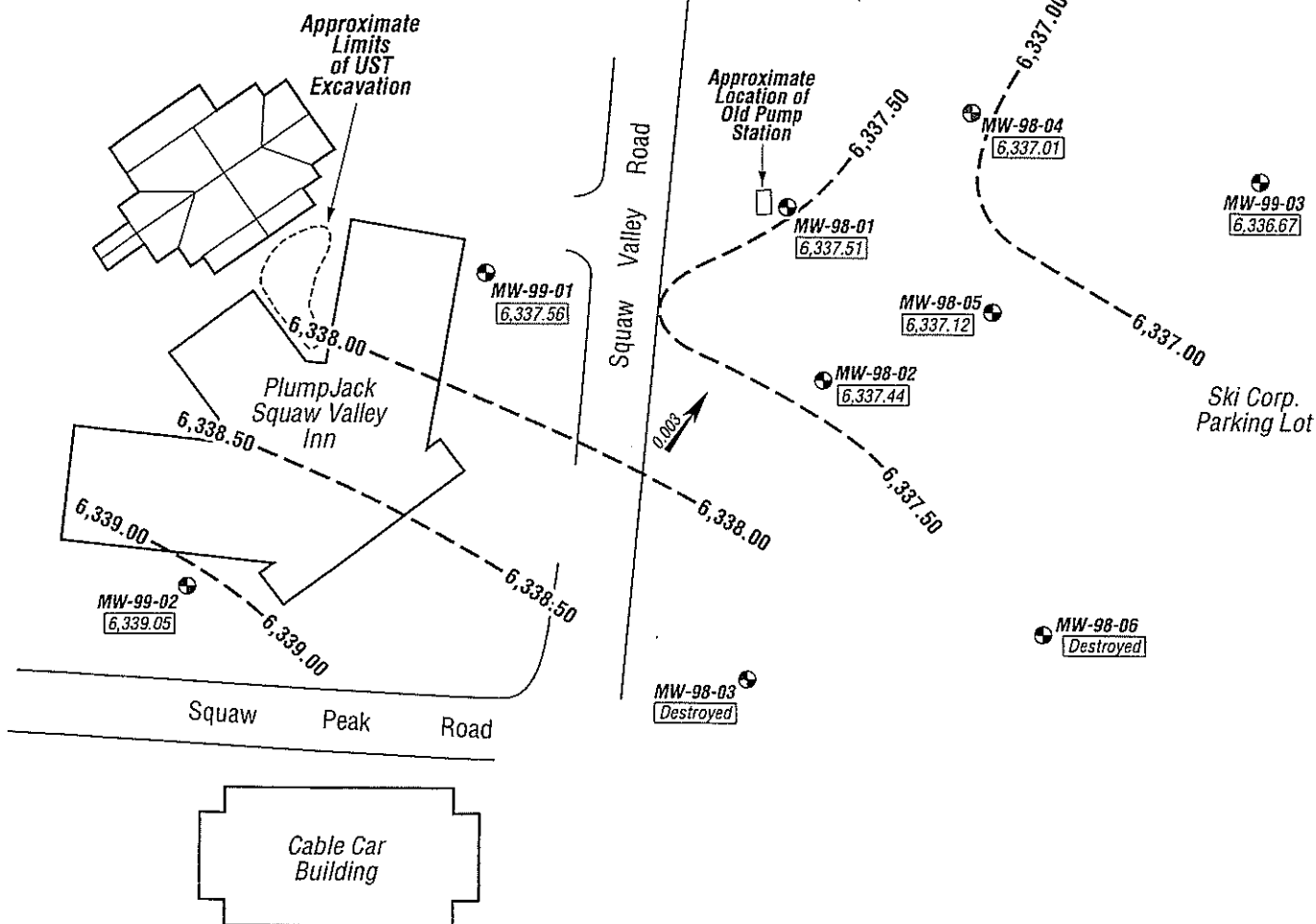
Olympic Valley,  
California

**TPHd Concentrations in Groundwater - July 2002**

S8212-06-04


July 2002

Figure 1-2



0 100  
Scale in Feet

LEGEND:

MW-98-01  Approximate Monitoring Well Location

--- Groundwater Elevation Contour (Interval = 0.50 Ft.)

 MSL Elevation of Groundwater Measured on 7/30/02

 0.003 Approximate Groundwater Direction & Gradient

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California

**Groundwater Elevation Map - July 2002**

S8212-06-04

July 2002

Figure / - 3

TABLE 1  
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA  
PLUMPACK SQUAW VALLEY INN  
OLYMPIC VALLEY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (msl)	DEPTH TO GROUNDWATER (feet bgs)	GROUNDWATER ELEVATION (msl)	TPHd (µg/l)	TPHmo (µg/l)	TPHg (µg/l)	BENZENE (µg/l)	TOLUENE (µg/l)	ETHYL-BENZENE (µg/l)	TOTAL XYLENES (µg/l)	MTBE 8020/8260 (µg/l)
MW98-01	6/17/98	6351.12	10.68	6340.44	<500	<500	<100	<2	<2	<2	<2	<2/---
MW98-01	9/30/98		13.41	6337.71	<100 <sup>1</sup> , 5,350	<500 <sup>1</sup> , <500	<50 <sup>1</sup> , <50	<1	<1	<1	<1	<1/---
MW98-01	7/21/99		13.17	6337.95	120	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-01	1/13/00		13.22	6337.90	110	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-01	5/19/00		12.07	6339.05	120	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-01	10/17/00		DRY	---	---	---	---	---	---	---	---	---
MW98-01	3/21/01		14.01	6337.11	290	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-01	8/8/01		INACCESSIBLE	---	---	---	---	---	---	---	---	---
MW98-01	3/26/02		13.16	6337.96	200	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-01	7/30/02		13.61	6337.51	120	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-02	6/17/98	6352.27	11.65	6340.62	3,000	<500	150	<2	<2	<2	<2	<2/---
MW98-02	9/30/98		14.67	6337.60	272 <sup>1</sup> , 90,600	<500 <sup>1</sup> , <500	<50 <sup>1</sup> , 1,060*	<1	<1	<1	<1	<1/---
MW98-02	7/21/99		14.00	6338.27	1,700	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-02	1/13/00		14.37	6337.90	1,000	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-02	5/19/00		13.83	6338.44	2,900	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-02	10/17/00		DRY	---	---	---	---	---	---	---	---	---
MW98-02	3/21/01		13.29	6338.98	380	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-02	8/8/01		DRY	---	---	<100	<50	---	---	---	---	---
MW98-02	3/26/02		14.40	6337.87	190	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-02	7/30/02		14.83	6337.44	200	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-03	6/17/98	6357.21	16.03	6341.18	<500	<500	250	<2	<2	<2	<2	<2/---
MW98-03	9/30/98		19.25	6337.96	<100	<500	<50 <sup>1</sup> , <50	<1	<1	<1	<1	<1/---
MW98-03	7/21/99		18.91	6338.30	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-03	1/13/00		19.04	6338.17	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-03	5/19/00		17.29	6339.92	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-03	10/17/00		DESTROYED	---	---	---	---	---	---	---	---	---
MW98-04	6/17/98	6350.25	10.58	6339.67	<500	<500	<100	<2	<2	<2	<2	<2/---
MW98-04	9/30/98		13.03	6337.22	<100	<500	<50 <sup>1</sup> , <50	<1	<1	<1	<1	<1/---
MW98-04	7/21/99		12.83	6337.42	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-04	1/13/00		12.87	6337.38	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-04	5/19/00		11.40	6338.85	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-04	10/17/00		DRY	---	---	---	---	---	---	---	---	---
MW98-04	3/21/01		13.61	6336.64	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-04	8/8/01		INACCESSIBLE	---	---	---	---	---	---	---	---	---
MW98-04	3/26/02		12.89	6337.36	<50	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-04	7/30/02		13.24	6337.01	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-05	6/17/98	6351.49	11.20	6340.29	93,000	<500	1,300	<2	<2	<2	<2	<2/---
MW98-05	9/30/98		14.24	6337.25	428, 82,300	<500 <sup>1</sup> , <500	<50 <sup>1</sup> , 650*	<1	<1	<1	<1	<1/---
MW98-05	7/21/99		14.00	6337.49	3,600	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-05	1/13/00		14.40	6337.09	1,900	<100	<50	<0.5	<0.5	<0.5	<0.5	---
MW98-05	5/19/00		13.53	6337.96	4,700	<100	130	<0.5	<0.5	<0.5	<0.5	---

TABLE 1  
SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA  
PLUMPACK SQUAW VALLEY INN  
OLYMPIC VALLEY, CALIFORNIA

WELL I.D.	SAMPLE DATE	TOC ELEVATION (msl)	DEPTH TO GROUNDWATER (feet bgs)	GROUNDWATER ELEVATION (msl)	TPHd (µg/l)	TPHmo (µg/l)	TPHg (µg/l)	BENZENE (µg/l)	TOLUENE (µg/l)	ETHYL-BENZENE (µg/l)	TOTAL XYLENES (µg/l)	MTBE 8020/8260 (µg/l)
MW98-05	10/17/00		DRY	---	---	---	---	---	---	---	---	---
MW98-05	3/21/01		14.06	6337.43	480	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW98-05	8/8/01		INACCESSIBLE	---	---	---	---	---	---	---	---	---
MW98-05	3/26/02		14.09	6337.40	1,600	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW98-05	7/30/02		14.37	6337.12	2,500	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW98-06	6/17/98	6357.06	16.57	6340.49	<500	<500	<100	<2	<2	<2	<2	<2
MW98-06	9/30/98		DRY	---	---	---	---	---	---	---	---	---
MW98-06	7/21/99		DRY	---	---	---	---	---	---	---	---	---
MW98-06	1/13/00		DRY	---	---	---	---	---	---	---	---	---
MW98-06	5/19/00		DRY	---	---	---	---	---	---	---	---	---
MW98-06	10/17/00		DESTROYED	---	---	---	---	---	---	---	---	---
MW99-01	7/21/99	6351.91	13.89	6338.02	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-01	1/18/00		13.20	6338.71	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-01	5/19/00		12.59	6339.32	160	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-01	10/17/00		15.72	6336.19	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-01	3/21/01		16.25	6335.66	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-01	8/8/01		INACCESSIBLE	6333.40	<100	170	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-01	3/26/02		14.35	---	---	---	---	---	---	---	---	---
MW99-01	7/30/02			6337.56	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-02	7/21/99	6357.96	18.33	6339.63	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-02	1/18/00		17.74	6340.22	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-02	5/19/00		16.91	6341.05	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-02	10/17/00		DRY	---	---	---	---	---	---	---	---	---
MW99-02	3/21/01		17.09	6340.87	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-02	8/8/01		DRY	---	---	---	---	---	---	---	---	---
MW99-02	3/26/02		INACCESSIBLE	---	---	---	---	---	---	---	---	---
MW99-02	7/30/02		18.91	6339.05	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-03	7/21/99	6349.35	12.30	6337.05	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-03	1/13/00		12.23	6337.12	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-03	5/19/00		11.03	6338.32	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-03	10/17/00		18.64	6330.71	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-03	3/21/01		16.31	6333.04	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-03	8/8/01		16.72	6332.63	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-03	3/26/02		12.61	6336.74	<50	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW99-03	7/30/02		12.68	6336.67	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Notes: TOC = Top of well casing  
msl = Mean Sea Level  
bgs = below ground surface  
--- = Not tested  
! = Soil and product were filtered from sample.  
\* = Pattern does not match gasoline reference standard.

µg/l = Micrograms per liter  
TPHd = Total petroleum hydrocarbons as diesel  
TPHg = Total petroleum hydrocarbons as gasoline  
TPHmo = Total petroleum hydrocarbons as motor oil  
MTBE = Methyl tert-butyl ether

## MONITORING WELL SAMPLING DATA

Project Name: Plumpjack Squaw Valley Inn	Project Number: S8212-06-04
Well No.: MW98-01	Date: 7/30/02
Well Diameter: 2.0 in.	Field Personnel: JE
Casing Length: 16-feet	Screened Casing Length: 5.75-15.75
Well Elevation: 6351.12 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before: 13.61 ft.	2 in. = .1632 Gal/ft.    4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 0.39 Gal.	Volumes Purged: 3.8
Start Purging Time: Hand Bailed	End Purging Time:
Total Time:            min.	Flow Gauge:            to
Total Volume: 1.5 Gal.	Avg. Flow Rate:            gpm
Water Depth After:            feet	Time:
Dissolved Oxygen:            mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Disposable Bailer			Sampling Method: Disposable Bailer	
Laboratory Analysis: TPHg, TPHd, TPHmo, BTEX and MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1148	9.3	73	6.75	0.5
1151	7.9	71	6.76	1.0
1154	7.2	74	6.74	1.5
1205				Sample

comments: Silty

## MONITORING WELL SAMPLING DATA

Project Name: Plumpjack Squaw Valley Inn	Project Number: S8212-06-04
Well No.: MW98-02	Date: 7/30/02
Well Diameter: 2.0 in.	Field Personnel: JE
Casing Length: 17.5-feet	Screened Casing Length: 7.25-17.25
Well Elevation: 6352.27 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before: 14.83 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 0.44 Gal.	Volumes Purged: 4.6
Start Purging Time: Hand Bailed	End Purging Time:
Total Time: min.	Flow Gauge: to
Total Volume: 2 Gal.	Avg. Flow Rate: gpm
Water Depth After: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, TPHd, TPHmo, BTEX and MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1123	8.1	86	7.79	0.5
1126	7.2	82	7.80	1.0
1129	6.8	88	8.04	2.0
1140				Sample

Comments: Turbid, slight odor.

## MONITORING WELL SAMPLING DATA

<b>Project Name:</b> Plumpjack Squaw Valley Inn	<b>Project Number:</b> S8212-06-04
<b>Well No.:</b> MW98-03	<b>Date:</b> 7/30/02
<b>Well Diameter:</b> 2.0 in.	<b>Field Personnel:</b> JE
<b>Casing Length:</b> 21.5-feet	<b>Screened Casing Length:</b> 11.25-21.25
<b>Well Elevation:</b> 6357.21 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
<b>Water Depth Before:</b> ft.	2 in. = .1632 Gal/ft.    4 in. = .6528 Gal/ft.
<b>Calculated Water Column Volume:</b> Gal.	<b>Volumes Purged:</b>
<b>Start Purging Time:</b> Hand Bailed	<b>End Purging Time:</b>
<b>Total Time:</b> min.	<b>Flow Gauge:</b> to
<b>Total Volume:</b> Gal.	<b>Avg. Flow Rate:</b> gpm
<b>Water Depth After:</b> feet	<b>Time:</b>
<b>Dissolved Oxygen:</b> mg/l	<b>Free Product: (Y/N); Thickness:</b> inches

SAMPLING CHARACTERISTICS				
<b>Purging Method:</b>			<b>Sampling Method:</b>	
<b>Laboratory Analysis:</b>				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged

<b>comments:</b> Destroyed

## MONITORING WELL SAMPLING DATA

Project Name: Plumpjack Squaw Valley Inn	Project Number: S8212-06-04
Well No.: MW98-04	Date: 7/30/02
Well Diameter: 2.0 in.	Field Personnel: JE
Casing Length: 16.5-feet	Screened Casing Length: 6.25-16.25
Well Elevation: 6350.25 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before: 13.24 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 0.53 Gal.	Volumes Purged: 3.8
Start Purging Time: Hand Bailed	End Purging Time:
Total Time: min.	Flow Gauge: to
Total Volume: 2.0 Gal.	Avg. Flow Rate: gpm
Water Depth After: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, TPHd, TPHmo, BTEX and MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1055	8.4	95	8.13	1.0
1058	7.5	95	8.26	1.5
1101	7.2	95	8.37	2.0
1110				Sample

comments: Turbid, silty.

## MONITORING WELL SAMPLING DATA

Project Name: Plumpjack Squaw Valley Inn	Project Number: S8212-06-04
Well No.: MW98-05	Date: 7/30/02
Well Diameter: 2.0 in.	Field Personnel: JE
Casing Length: 17.5-feet	Screened Casing Length: 7.25-17.25
Well Elevation: 6351.49 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before: 14.37 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 0.51 Gal.	Volumes Purged: 3.9
Start Purging Time: Hand Bailed	End Purging Time:
Total Time: min.	Flow Gauge: to
Total Volume: 2 Gal.	Avg. Flow Rate: gpm
Water Depth After: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, TPHd, TPHmo, BTEX and MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1028	8.8	91	8.84	1.0
1030	7.8	89	8.86	1.5
1033	7.4	93	8.40	2.0
1040				Sample

comments: Slight hydrocarbon odor, sheen.

## MONITORING WELL SAMPLING DATA

<b>Project Name:</b> Plumpjack Squaw Valley Inn	<b>Project Number:</b> S8212-06-04
Well No.: MW98-06	Date: 7/30/02
Well Diameter: 2.0 in.	Field Personnel: JE
Casing Length: 21-feet	Screened Casing Length: 10.75-20.75
Well Elevation: 6357.06 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before: ft.	2 in. = .1632 Gal/ft.    4 in. = .6528 Gal/ft.
Calculated Water Column Volume: Gal.	Volumes Purged:
Start Purging Time:	End Purging Time:
Total Time:            min.	Flow Gauge:            to
Total Volume: Gal.	Avg. Flow Rate:            gpm
Water Depth After:            feet	Time:
Dissolved Oxygen:            mg/l	Free Product: (Y/N); Thickness:            inches

SAMPLING CHARACTERISTICS				
Purging Method:			Sampling Method:	
Laboratory Analysis:				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged

comments: Destroyed.

## MONITORING WELL SAMPLING DATA

Project Name: Plumpjack Squaw Valley Inn	Project Number: S8212-06-04
Well No.: MW-99-01	Date: 7/30/02
Well Diameter: 2.0 in.	Field Personnel: JE
Casing Length: 20.5-feet	Screened Casing Length: 5.25 – 20.25
Well Elevation: 6351.91 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before: 14.35 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 1.00 Gal.	Volumes Purged: 3.5
Start Purging Time: Hand Bailed	End Purging Time:
Total Time: min.	Flow Gauge: to
Total Volume: 3.5 Gal.	Avg. Flow Rate: gpm
Water Depth After: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Disposable Bailer			Sampling Method: Disposable Bailer	
Laboratory Analysis: TPHg, TPHd, TPHmo, BTEX and MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1221	9.0	76	7.18	1.0
1224	8.0	76	7.29	2.0
1228	7.5	76	7.42	3.5
1235				Sample

Comments: Very silty.

## MONITORING WELL SAMPLING DATA

Project Name: Plumpjack Squaw Valley Inn	Project Number: S8212-06-04
Well No.: MW99-02	Date: 7/30/02
Well Diameter: 2.0 in.	Field Personnel: JE
Casing Length: 22.0-feet	Screened Casing Length: 6.75 – 21.75
Well Elevation: 6357.96 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before: 18.91 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 0.50 Gal.	Volumes Purged: 4.0
Start Purging Time: Hand Bailed	End Purging Time:
Total Time: min.	Flow Gauge: to
Total Volume: 2.0 Gal.	Avg. Flow Rate: gpm
Water Depth After: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Disposable Bailer			Sampling Method: Disposable Bailer	
Laboratory Analysis: TPHg, TPHd, TPHmo, BTEX and MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1253	10.4	96	5.98	0.50
1256	8.7	94	6.32	1.0
1259	8.1	93	6.08	2.0
1310				Sample

Comments: Silty.

## MONITORING WELL SAMPLING DATA

Project Name: Plumpjack Squaw Valley Inn	Project Number: S8212-06-04
Well No.: MW99-03	Date: 7/30/02
Well Diameter: 2.0 in.	Field Personnel: JE
Casing Length: 20.5-feet	Screened Casing Length: 5.25 – 20.25
Well Elevation: 6349.35 feet MSL measured from TOC	

PURGE CHARACTERISTICS	
Water Depth Before: 12.68 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 1.28 Gal.	Volumes Purged: 3.1
Start Purging Time: Hand Bailed	End Purging Time:
Total Time: min.	Flow Gauge: to
Total Volume: 4.0 Gal.	Avg. Flow Rate: gpm
Water Depth After: feet	Time:
Dissolved Oxygen: mg/l	Free Product: (N); Thickness: inches

SAMPLING CHARACTERISTICS				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, TPHd, TPHmo, BTEX and MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
948	12.2	139	11.21	1.0
952	9.3	128	11.44	2.0
958	8.7	130	9.58	4.0
1010				Sample

Comments: Turbid, no odor. Duplicate sample MW97-01 collected at 1030.



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-1  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW99-03  
Analyzed: 08/10/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Total Petroleum Hydrocarbons (Gasoline)	50.	ND
Percent Surrogate Recovery		94

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

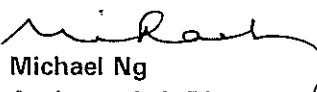
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Extracted by EPA 5030 (Purge and Trap).

VA110809  
MSD #11  
28410-1.xls  
MN/sks/jmm/jh

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-1  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW99-03  
Analyzed: 08/12/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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## TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (Diesel)	100.	ND
Total Petroleum Hydrocarbons (Motor Oil)	100.	ND
Percent Surrogate Recovery		95

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

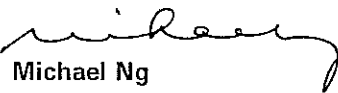
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by GC/MS Combination.

Note: Extracted by EPA 3510 on 08/06/02.

SA2791  
MSD #4  
28410-1t.xls  
MN/sks/ag/yl/km

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-2  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW98-05  
Analyzed: 08/11/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Total Petroleum Hydrocarbons (Gasoline)	50.	ND
Percent Surrogate Recovery		95

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

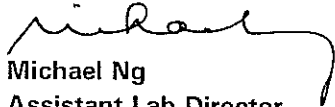
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Extracted by EPA 5030 (Purge and Trap).

VA110810  
MSD #11  
28410-2.xls  
MN/sks/jmm/mh/ses

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-2  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW98-05  
Analyzed: 08/13/02  
Method: See Below

CONSTITUENT	PQL * ug/L	RESULT ** ug/L
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## TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (Diesel)	100.	2500.
Total Petroleum Hydrocarbons (Motor Oil)	100.	ND
Percent Surrogate Recovery		87

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

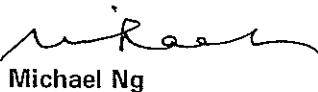
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by GC/MS Combination.

Note: Extracted by EPA 3510 on 08/06/02.

SA2791  
MSD #4  
28410-2t.xls  
MN/sks/ag/km

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-3  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW97-01  
Analyzed: 08/10/02  
Method: See Below

CONSTITUENT	PQL * ug/L	RESULT ** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Total Petroleum Hydrocarbons (Gasoline)	50.	ND
Percent Surrogate Recovery		94

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

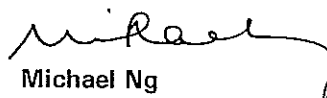
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Extracted by EPA 5030 (Purge and Trap).

VA110809  
MSD #11  
28410-3.xls  
MN/sks/jmm/jh

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-3  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW97-01  
Analyzed: 08/12/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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## TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (Diesel)	100.	ND
Total Petroleum Hydrocarbons (Motor Oil)	100.	ND
Percent Surrogate Recovery		76

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

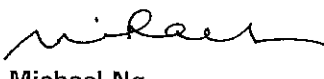
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by GC/MS Combination.

Note: Extracted by EPA 3510 on 08/06/02.

SA2791  
MSD #4  
28410-3t.xls  
MN/sks/ag/yl/km

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-4  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW98-04  
Analyzed: 08/10/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Total Petroleum Hydrocarbons (Gasoline)	50.	ND
Percent Surrogate Recovery		94

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

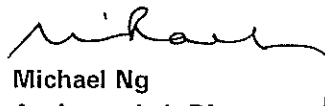
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Extracted by EPA 5030 (Purge and Trap).

VA110809  
MSD #11  
28410-4.xls  
MN/sks/jmm/jh

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-4  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW98-04  
Analyzed: 08/13/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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## TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (Diesel)	100.	ND
Total Petroleum Hydrocarbons (Motor Oil)	100.	ND
Percent Surrogate Recovery		94

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

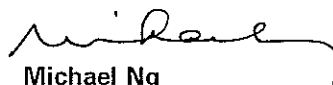
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by GC/MS Combination.

Note: Extracted by EPA 3510 on 08/06/02.

SA2791  
MSD #4  
28410-4t.xls  
MN/sks/ag/yl/km

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

**Client:** Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

**Lab Number:** 28410-5  
**Collected:** 07/30/02  
**Received:** 07/31/02  
**Matrix:** Aqueous

**Project:** Plumpjack Squaw Valley Inn  
**Project Number:** 58212-06-04  
**Collected by:** Julio A. Esquivel

**Sample Description:**  
MW98-02  
**Analyzed:** 08/12/02  
**Method:** See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Total Petroleum Hydrocarbons (Gasoline)	50.	ND
Percent Surrogate Recovery		93

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

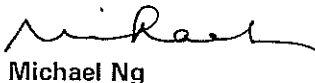
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Extracted by EPA 5030 (Purge and Trap).

VA110811  
MSD #11  
28410-5.xls  
MN/sks/jmm/de/mh

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-5  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW98-02  
Analyzed: 08/13/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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## TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (Diesel)	100.	200.
Total Petroleum Hydrocarbons (Motor Oil)	100.	ND
Percent Surrogate Recovery		82

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

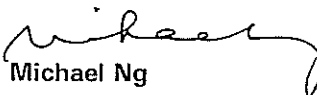
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by GC/MS Combination.

Note: Extracted by EPA 3510 on 08/06/02.

SA2791  
MSD #4  
28410-5t.xls  
MN/sks/ag/yl/km

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-6  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
Blank Trip  
Analyzed: 08/10/02  
Method: See Below

CONSTITUENT	PQL * ug/L	RESULT ** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Total Petroleum Hydrocarbons (Gasoline)	50.	ND
Percent Surrogate Recovery		93

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

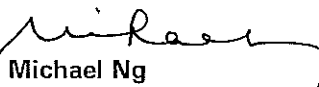
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Extracted by EPA 5030 (Purge and Trap).

VA110809  
MSD #11  
28410-6.xls  
MN/sks/jmm/ses/jh

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-7  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW98-01  
Analyzed: 08/11/02  
Method: See Below

CONSTITUENT	PQL * ug/L	RESULT ** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Total Petroleum Hydrocarbons (Gasoline)	50.	ND
Percent Surrogate Recovery		93

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

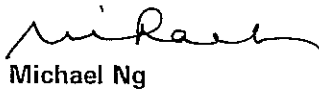
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Extracted by EPA 5030 (Purge and Trap).

VA110810  
MSD #11  
28410-7.xls  
MN/sks/jmm/mh/ses

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-7  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW98-01  
Analyzed: 08/13/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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## TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (Diesel)	100.	120.
Total Petroleum Hydrocarbons (Motor Oil)	100.	ND
Percent Surrogate Recovery		87

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by GC/MS Combination.

Note: Extracted by EPA 3510 on 08/06/02.

SA2791  
MSD #4  
28410-7t.xls  
MN/sks/ag/yl/km

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-8  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW99-01  
Analyzed: 08/10/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Total Petroleum Hydrocarbons (Gasoline)	50.	ND
Percent Surrogate Recovery		95

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

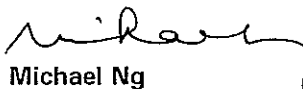
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Extracted by EPA 5030 (Purge and Trap).

VA110810  
MSD #11  
28410-8.xls  
MN/sks/jmm/mh/ses

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-8  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW99-01  
Analyzed: 08/13/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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## TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (Diesel)	100.	ND
Total Petroleum Hydrocarbons (Motor Oil)	100.	ND
Percent Surrogate Recovery		88

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

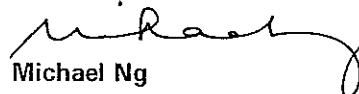
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by GC/MS Combination.

Note: Extracted by EPA 3510 on 08/06/02.

SA2791  
MSD #4  
28410-8t.xls  
MN/sks/ag/yl/km

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-9  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW99-02  
Analyzed: 08/10/02  
Method: See Below

CONSTITUENT	PQL * ug/L	RESULT ** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Total Petroleum Hydrocarbons (Gasoline)	50.	ND
Percent Surrogate Recovery		95

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

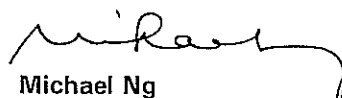
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Extracted by EPA 5030 (Purge and Trap).

VA110810  
MSD #11  
28410-9.xls  
MN/sks/jmm/mh/ses

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



## REPORT OF ANALYTICAL RESULTS

Client: Kevin Brown  
GEOCON  
11375 Sunrise Park Dr., Ste. 100  
Rancho Cordova, CA 95742

Lab Number: 28410-9  
Collected: 07/30/02  
Received: 07/31/02  
Matrix: Aqueous

Project: Plumpjack Squaw Valley Inn  
Project Number: 58212-06-04  
Collected by: Julio A. Esquivel

Sample Description:  
MW99-02  
Analyzed: 08/13/02  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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## TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (Diesel)	100.	ND
Total Petroleum Hydrocarbons (Motor Oil)	100.	ND

Percent Surrogate Recovery		87
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ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by GC/MS Combination.

Note: Extracted by EPA 3510 on 08/06/02.

SA2791  
MSD #4  
28410-9t.xls  
MN/sks/ag/yl/km

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director



71 Zaca Lane San Luis Obispo CA 93401 tel 805.544.4696 fax 805.544.8226

AUG 7 1 2002

CHAIN of CUSTODY

BY: GEOCON

Report to	phone	fax	ANALYSIS REQUESTED	Turnaround Time
Kevin Brown	916-852-9118	916-852-9132		ASAP <input type="checkbox"/> 48 hr <input type="checkbox"/> 12 hr <input type="checkbox"/> 72 hr <input type="checkbox"/> 24 hr <input type="checkbox"/> <input checked="" type="checkbox"/>
company	Project Pumpjack Squaw Valley Inn			
address	11375 Sunrise Park Dr. Suite. 100			
Rancho Cordova CA. 95742	sample # 58212-06-DH			
SAMPLE DESCRIPTION	Date Sampled	Time	Matrix	Preserve
28410-1	7/30/02	1010	H <sub>2</sub> O	HCL
-2-1		1010		
-3-2		1040		HCL
-4-2		1040		
-5-3		1030		HCL
-6-3		1030		
-4-4		1110		HCL
-5-5		1110		
-5-5		1140		HCL
-6-6		1140		
Blank Trip		930	✓	HCL
Comments INCLUDE BATCH QA/QC INCLUDE EDF				
Relinquished by: <u>Julie A. Esquivel</u> Signature _____ Print _____ Company _____ Date 7/30/02 Time 1640				
Received by: _____ Signature _____ Print _____ Company _____ Date _____ Time _____				
Sample integrity upon receipt: Samples received intact <input checked="" type="checkbox"/> Samples received cold <input type="checkbox"/> Custody seals <input type="checkbox"/> Correct container types <input checked="" type="checkbox"/>				
Bill 3rd Party: <u>Kevin Brown 8-1-02-DH</u> PO# _____ Quote yes no				
Relinquished by: _____ Signature _____ Print _____ Company _____ Date _____ Time _____				
Received by: _____ Signature _____ Print _____ Company _____ Date 7/31/02 Time 1000				

email: zymax@ZymaXusa.com

Page of



# CHAIN of CUSTODY

71 Zaca Lane San Luis Obispo CA 93401 tel 805.544.4696 fax 805.544.8226

report to	company	address	phone	fax	project	sample	DATE SAMPLED	TIME	MATRIX	PRESERVE	ANALYSIS REQUESTED	# of containers	Turnaround Time	Remarks
Kevin Brown	Geocon Consultant	11373 Sunrise Park Dr. Suite, 100 Rancho Cordova CA. 95742	916-852-9118	916-852-9132	Stumpjack Square Valley Inn	58212-06-04	7/30/02	1205	H <sub>2</sub> O	HCL	TPH, BTEX 8260 MIBF 8260	4	ASAP <input type="checkbox"/> 48 hr <input type="checkbox"/> 72 hr <input type="checkbox"/> 24 hr <input checked="" type="checkbox"/>	Vials
28410 -7	MW98-01							1205				2		2 Liter
-7	MW98-01							1235		HCL		4		V
-8	MW99-01							1235				2		L
-8	MW99-01							1310		HCL		4		V
-9	MW99-02							1310				2		L

Comments	Relinquished by:	Received by:
Include Batch QA/QC	Signature _____ Print _____ Company _____ Date _____	Signature _____ Print _____ Company _____ Date _____
Include EDF	Signature _____ Print _____ Company _____ Date _____	Signature _____ Print _____ Company _____ Date _____
Sample integrity upon receipt:	Relinquished by:	Received by:
Samples received intact <input checked="" type="checkbox"/>	Signature _____	Signature _____
Samples received cold <input type="checkbox"/>	Print _____	Print _____
Custody seals <input type="checkbox"/>	Company _____	Company _____
Correct container types <input checked="" type="checkbox"/>	Date _____	Date _____
Bill 3rd Party:	Time _____	Time _____
PO# _____	Quote yes no	Quote yes no

email: [zymax@ZymaXusa.com](mailto:zymax@ZymaXusa.com)